

lobes and usually a smaller one on each side at the base; the lobes, which are half to two-thirds the depth of the blade and lance shaped, each have one to three large teeth or minor lobes at the sides. When they first unfold, the leaves are covered with a thick whitish brown felt composed of stellate hairs, which later falls away, leaving the leaf smooth except near the veins beneath and glossy above; stalk $1\frac{1}{2}$ to 3 inches long. Fruit balls two to six on each stalk, 1 inch wide, bristly." (*W. J. Bean, Trees and Shrubs Hardy in the British Isles*, vol. 2, p. 203.)

42649 to 42673.

From Yokohama, Japan. Purchased from the Yokohama Nursery Company. Received April 26, 1916. Plants of the following:

42649 to 42655. ARUNDINARIA spp. Poaceæ.

Bamboo.

42649. ARUNDINARIA GRAMINEA (Bean) Makino.

A slender and very hardy bamboo, with stems up to 10 feet high and about one-fourth of an inch in diameter. The leaves are the narrowest in proportion to their length of all the hardy bamboos, being 4 to 9 inches long but not more than half an inch wide. (Adapted from *W. J. Bean, Trees and Shrubs Hardy in the British Isles*, vol. 1, p. 215.)

42650. ARUNDINARIA SIMONII (Carr.) A. and C. Rivière.

A very vigorous bamboo, which spreads rapidly by means of its underground suckers, and, with the exception of *Arundinaria fastuosa*, is the tallest of our hardy sorts. It has stems up to 18 feet high, 1 to $1\frac{1}{4}$ inches in diameter at the base, the outer ones arching outward. The leaves are narrowly oblong, broadly wedge shaped at the base, with long tapering points, 3 to 12 inches long and one-third to $1\frac{1}{4}$ inches wide, vivid green above, and glaucous on one side of the midrib beneath, rather greenish on the other. (Adapted from *W. J. Bean, Trees and Shrubs Hardy in the British Isles*, vol. 1, p. 219.)

"The sheaths nearest the ground are short, though long enough to overlap the internodes, but those of the upper joints, although 8 to 10 inches long, do not exceed the internodes in length. They are at first of a fine green color, shading into purple, which soon fades, however, to a dull yellow. These prominent sheaths, which are thick, stiff, and beautifully glazed on the side next the culm, will easily distinguish this arundinaria from any other common Japanese form." (*D. G. Fairchild, Japanese Bamboos*, *Bur. Plant Indus. Bul.* 43, p. 32.)

42651. ARUNDINARIA JAPONICA Sieb. and Zucc.

A very hardy, handsome evergreen bamboo, having larger leaves than any other species of its height and character that we can grow outside. It maintains a rather tufted habit. The stems are 10 to 12 feet high, erect, one-sixth to two-thirds of an inch in diameter, with erect branches near the top. Leaves 7 to 12 inches long, three-fourths of an inch to 2 inches wide, terminated by a long, taillike point. The upper surface is a dark, glossy green; rather glaucous beneath, except a strip about one-fourth of its width near one margin, which is green. (Adapted from *W. J. Bean, Trees and Shrubs Hardy in the British Isles*, vol. 1, p. 216.)